

PATNO IS 6234066

DATE: MARCH 28, 2007
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PATNO IS 6234066

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LEVEL 1 - 1 PATENT

1. 6234066 , May 22, 2001 , Rotary blancher for processing food product, Zittel, David R. - Columbus, Wisconsin, United States (US); Hughes, Steven W. - Beaver Dam, Wisconsin, United States (US); Maupin, Daniel D. - Columbus, Wisconsin, United States (US), 727122 (09), Lyco Manufacturing Inc., Columbus, Wisconsin, United States (US), United States company or corporation (02)

CORE TERMS: food, blancher, orifice, drum, o'clock, discharged, heat, bank, food product, fluid ...

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Patent Search 6234066 3/28/2007

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Current session 28/03/2007

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QUESTEL.ORBIT (TM) 1998

28/03/07 17*25*37

Last connection: 23/03/07 14*05*48

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Query/Command : FILE PLUSPAT

QUESTEL - Time in minutes : 0,61

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Cost estimated for the last database search :	0.69 USD
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Selected file: PLUSPAT

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Citations and FI/F-term classification available for Japanese documents
Last update of file: 2007/03/21 (YYYY/MM/DD) 2007-11/UP (last update)

Search statement 1

Query/Command : US6234066/PN

** SS 1: Results 1

Search statement 2

Query/Command : PRT FULL NONSTOP LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US2001000327 A1 20010419 [US20010000327]

PN2 - US6234066 B1 20010522 [US6234066]
TI - (A1) Rotary blancher for processing food product
PA - (A1) LYCO MFG INC (US)
PA0 - Lyco Manufacturing, Inc., [US]
PA2 - (B1) LYCO MFG INC (US)
IN - (A1) HUGHES STEVEN W (US); MAUPIN DANIEL D (US); ZITTEL DAVID R (US)
AP - US72712200 20001130 [2000US-0727122]
FD - Divsn. of: US 09419716 - 19991014 [1999US-0419716] PENDING
PR - US72712200 20001130 [2000US-0727122]
US41971699 19991014 [1999US-0419716]
IC - (A1) A23L-001/01
ICAA - A23B-007/06 [2006-01 A - I R M EP]; A23L-001/01 [2006-01 A - I R M EP]; A47J-037/04 [2006-01 A - I R M EP]
ICCA - A23B-007/00 [2006 C - I R M EP]; A23L-001/01 [2006 C - I R M EP]; A47J-037/04 [2006 C - I R M EP]
EC - A23B-007/06
A23L-001/01D
A23L-001/01H
A47J-037/04G
PCL - ORIGINAL (O) : 099348000; CROSS-REFERENCE (X) : 099355000
099404000 099409000 099443000C 099470000 099517000
DT - Corresponding document
CT - US1231002; US1290396; US1806957; US2166197; US2314871; US2909872; US3135668; US3484360; US3760714; US4875344; US5456091; US5632195; US5752431
STG - (A1) Utility Patent Application published on or after January 2, 2001
STG2 - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
AB - A method and rotary blancher for processing food product using a heat transfer medium and directed flows of a fluid that can comprise a liquid, a gas, a vapor or a combination thereof. The directed flows can be discharged from orifices or banks of orifices that are distributed around the food products in the blancher. The flows are discharged at a high flow rate, a high pressure, or a combination of both. Where a liquid is discharged, it preferably is discharged at a flow rate of at least 20 gpm and at least 30 psi. Where a gas is discharged, it is discharged at a flow rate of at least 60 CFM at a pressure of at least 2 psi or at a flow rate of at least 10 CFM at a pressure of at least 80 psi. If desired, discharged fluid can be recirculated to save energy. To help increase agitation and help break up clumps of food products in the blancher, direct-contact mechanical agitation devices, such as baffles, can be used. Such a blancher and method can be used to process food product by blanching, cooking and pasteurizing, is suited for processing relatively heavy food products having a density of at least 55 lbs/ft³ using discharged liquid and gas, and is suited for processing food products having a lesser density using only discharged gas.
UP - 2001-20

/// LGST- ©EPO

PN - US2001000327 A1 20010419 [US20010000327]
US6234066 B1 20010522 [US6234066]
AP - US72712200 20001130 [2000US-0727122]
ACT - 20040727 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040302
UP - 2004-34

/// CRXX- ©CLAIMS/RRX

PN - 6,234,066 A 20010522 [US6234066]
PA - Lyco Manufacturing Inc
ACT - 20040302 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040727
REISSUE REQUEST NUMBER: 10/791695
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1761

Reissue Patent Number:

Search statement 2

Query/Command : FILE INPADOC

LGST - Time in minutes : 0,02
The cost estimation below is based on Questel's
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Estimated cost :	0.02 USD
Records displayed and billed : 1	
Estimated cost :	0.70 USD
Cost estimated for the last database search :	0.72 USD
Estimated total session cost :	1.41 USD

CRXX - Time in minutes : 0,02
The cost estimation below is based on Questel's
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Estimated cost :	0.03 USD
Records displayed and billed : 1	
Estimated cost :	6.00 USD
Cost estimated for the last database search :	6.03 USD
Estimated total session cost :	7.44 USD

LITA - Time in minutes : 0,00
The cost estimation below is based on Questel's
standard price list

Estimated total session cost :	7.44 USD
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PLUSPAT - Time in minutes : 0,31
The cost estimation below is based on Questel's

standard price list

	Estimated cost :	0.90 USD
Records displayed and billed :	1	
	Estimated cost :	1.55 USD
Cost estimated for the last database search :		2.45 USD
Estimated total session cost :		9.89 USD

Selected file: PLUSPAT

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Individual records for each Country or Patent Office
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Citations and FI/F-term classification available for Japanese documents
Last update of file: 2007/03/21 (YYYY/MM/DD) 2007-11/UP (last update)

Search statement 2

Query/Command : FAM US6234066/PN

1 Patent Groups

**** SS 2: Results 5**

Search statement 3

Query/Command : FAMSTATE NONSTOP

1 / 5 PLUSPAT - ©QUESTEL-ORBIT

PN - AU8003100 A 20010423 [AU200080031]
STG - (A) Open to public inspection
TI - (A) Method and rotary blancher for processing food product
PA - (A) LYCO MFG INC
IN - (A) HUGHES STEVEN W; MAUPIN DANIEL D; ZITTEL DAVID R
IC - (A) A23L-001/00 A23L-003/00
AP - AU8003100 20001006 [2000AU-0080031]
PR - US41971699 19991014 [1999US-0419716]
WOUS0027852 20001006 [2000WO-US27852]
ICAA - A23B-007/06 [2006-01 A - I R M EP]; A23L-001/01 [2006-01 A - I R M EP];
A47J-037/04 [2006-01 A - I R M EP]
ICCA - A23B-007/00 [2006 C - I R M EP]; A23L-001/01 [2006 C - I R M EP]; A47J-
037/04 [2006 C - I R M EP]
UP - 2001-34

2 / 5 PLUSPAT - ©QUESTEL-ORBIT

PN - EP1220618 A1 20020710 [EP1220618]
STG - (A1) Public. Of applic. With search report
TI - (A1) METHOD AND ROTARY BLANCHER FOR PROCESSING FOOD PRODUCT
OTI - (A1) VERFAHREN SOWIE ROTATIONSBLANCHIERER ZUR HERSTELLUNG EINES LEBENSMITTELPRODUKTES
 (A1) PROCEDE ET BLANCHEUR ROTATIF PERMETTANT DE TRANSFORMER DES PRODUITS ALIMENTAIRES
PA - (A1) LYCO MFG INC (US)
PA0 - Lyco Manufacturing, Inc.; 115 Commercial Drive, P.O. Box 31; Columbus, WI 53925 (US)
IN - (A1) HUGHES STEVEN W (US); MAUPIN DANIEL D (US); ZITTEL DAVID R (US)
IC - (A1) A23L-001/00 A23L-003/00
PN2 - EP1220618 A4 20030312 [EP1220618]
STG2 - (A4) Publ. Of suppl. search report
TI2 - (A4) METHOD AND ROTARY BLANCHER FOR PROCESSING FOOD PRODUCT
OTI2 - (A4) VERFAHREN SOWIE ROTATIONSBLANCHIERER ZUR HERSTELLUNG EINES LEBENSMITTELPRODUKTES
 (A4) PROCEDE ET BLANCHEUR ROTATIF PERMETTANT DE TRANSFORMER DES PRODUITS ALIMENTAIRES
PA2 - (A4) LYCO MFG INC (US)
IN2 - (A4) HUGHES STEVEN W (US); MAUPIN DANIEL D (US); ZITTEL DAVID R (US)
IC2 - (A4) A23B-007/06 A23L-001/00 A23L-003/00 A23N-012/00
LA - ENGLISH (ENG)
AP - EP00970688 20001006 [2000EP-0970688]
PR - WOUS0027852 20001006 [2000WO-US27852]
 US41971699 19991014 [1999US-0419716]
ICAA - A23B-007/06 [2006-01 A - I R M EP]; A23L-001/01 [2006-01 A - I R M EP];
 A47J-037/04 [2006-01 A - I R M EP]
ICCA - A23B-007/00 [2006 C - I R M EP]; A23L-001/01 [2006 C - I R M EP]; A47J-
 037/04 [2006 C - I R M EP]
DS - AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
 AL LT LV MK RO SI
UP - 2002-28

1 / 1 LEGALI - ©EPO

PN - EP1220618 A1 20020710 [EP1220618]EP1220618 A4 20030312 [EP1220618]
AP - EP00970688 20001006 [2000EP-0970688]
ACTE -
 20020710 EP/AX-A [+]

EXTENSION OF THE EUROPEAN PATENT TO
 AL;LT;LV;MK;RO;SI

20020710 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020710 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20020411

20020925 EP/RIN1-A
INVENTOR (CORRECTION)
ZITTEL, DAVID, R.

20020925 EP/RIN1-A
INVENTOR (CORRECTION)
HUGHES, STEVEN, W.

20020925 EP/RIN1-A
INVENTOR (CORRECTION)
MAUPIN, DANIEL, D.

20030312 EP/A4-A [+]
SUPPLEMENTARY SEARCH REPORT
EFFECTIVE DATE: 20030123

20030312 EP/RIC1-A
CLASSIFICATION (CORRECTION)
7 A23L-001/00 A

20030312 EP/RIC1-A
CLASSIFICATION (CORRECTION)
7 A23L-003/00 B

20030312 EP/RIC1-A
CLASSIFICATION (CORRECTION)
7 A23B-007/06 B

20030312 EP/RIC1-A
CLASSIFICATION (CORRECTION)
7 A23N-012/00 B

20031119 EP/R17P-A [+]
REQUEST FOR EXAMINATION FILED (CORRECTION)
EFFECTIVE DATE: 20020409

20040526 EP/RBV-A [+]
DESIGNATED CONTRACTING STATES (CORRECTION):
AT BE CH CY DE DK GB IT LI SE

UP - 2004-22

3 / 5 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US6214400 B1 20010410 [US6214400]
STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
TI - (B1) Method for processing food product
PA - (B1) LYCO MFG INC (US)
PA0 - Lyco Manufacturing Inc., Columbus WI [US]
IN - (B1) HUGHES STEVEN W (US); MAUPIN DANIEL D (US); ZITTEL
DAVID R (US)
IC - (B1) A23L-001/00
AP - US41971699 19991014 [1999US-0419716]
PR - US41971699 19991014 [1999US-0419716]
ICAA - A23B-007/06 [2006-01 A - I R M EP]; A23L-001/01 [2006-01 A - I R M EP];
A47J-037/04 [2006-01 A - I R M EP]
ICCA - A23B-007/00 [2006 C - I R M EP]; A23L-001/01 [2006 C - I R M EP]; A47J-
037/04 [2006 C - I R M EP]
EC - A23B-007/06
A23L-001/01D
A23L-001/01H
A47J-037/04G
PCL - ORIGINAL (O) : 426509000; CROSS-REFERENCE (X) : 426510000
426511000 426520000
DT - Corresponding document
UP - 2001-14

1 / 1 LEGALI - ©EPO

PN - US6214400 B1 20010410 [US6214400]
AP - US41971699 19991014 [1999US-0419716]
ACTE - 19991014 US/AS-A
ASSIGNMENT
OWNER: LYCO MANUFACTURING, INC. P.O. BOX 31 115 COMMERCIA;
EFFECTIVE DATE: 19991013
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:ZITTEL, DAVID
R.;HUGHES, STEVEN W.;MAUPIN, DANIEL
D.;REEL/FRAME:010323/0775

20040608 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040302
UP - 2004-25

4 / 5 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US2001000327 A1 20010419 [US20010000327]
STG - (A1) Utility Patent Application published on or after January 2, 2001

TI - (A1) Rotary blancher for processing food product
PA - (A1) LYCO MFG INC (US)
PA0 - Lyco Manufacturing, Inc., [US]
IN - (A1) HUGHES STEVEN W (US); MAUPIN DANIEL D (US); ZITTEL DAVID R (US)
IC - (A1) A23L-001/01
PN2 - US6234066 B1 20010522 [US6234066]
STG2 - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
TI2 - (B1) Rotary blancher for processing food product
PA2 - (B1) LYCO MFG INC (US)
IN2 - (B1) HUGHES STEVEN W (US); MAUPIN DANIEL D (US); ZITTEL DAVID R (US)
IC2 - (B1) A23L-003/00 A23N-012/00 A47J-037/12 F25D-025/02
AP - US72712200 20001130 [2000US-0727122]
PR - US72712200 20001130 [2000US-0727122]
 US41971699 19991014 [1999US-0419716]
ICAA - A23B-007/06 [2006-01 A - I R M EP]; A23L-001/01 [2006-01 A - I R M EP]; A47J-037/04 [2006-01 A - I R M EP]
ICCA - A23B-007/00 [2006 C - I R M EP]; A23L-001/01 [2006 C - I R M EP]; A47J-037/04 [2006 C - I R M EP]
EC - A23B-007/06
 A23L-001/01D
 A23L-001/01H
 A47J-037/04G
PCL - ORIGINAL (O) : 099348000; CROSS-REFERENCE (X) : 099355000
 099404000 099409000 099443000C 099470000 099517000
DT - Corresponding document
UP - 2001-20

1 / 1 LEGALI - ©EPO

PN - US2001000327 A1 20010419 [US20010000327]US6234066 B1 20010522 [US6234066]
AP - US72712200 20001130 [2000US-0727122]
ACTE - 20040727 US/RF-A
 REISSUE APPLICATION FILED
 EFFECTIVE DATE: 20040302
UP - 2004-34

5 / 5 PLUSPAT - ©QUESTEL-ORBIT - image

PN - WO200126483 A1 20010419 [WO200126483]
STG - (A1) Publ. Of int. Appl. With int. Search rep
TI - (A1) METHOD AND ROTARY BLANCHER FOR PROCESSING FOOD PRODUCT

OTI - (A1) PROCEDE ET BLANCHEUR ROTATIF PERMETTANT DE TRANSFORMER DES PRODUITS ALIMENTAIRES
PA - (A1) LYCO MFG INC (US)
PA0 - LYCO MANUFACTURING, INC. ; 115 Commercial Drive P.O. Box 31 Columbus, WI 53925 (US)
IN - (A1) HUGHES STEVEN W; MAUPIN DANIEL D; ZITTEL DAVID R
IC - (A1) A23L-001/00 A23L-003/00
LA - ENGLISH (ENG)
AP - WO/US0027852 20001006 [2000WO-US27852]
PR - US41971699 19991014 [1999US-0419716]
ICAA - A23B-007/06 [2006-01 A - I R M EP]; A23L-001/01 [2006-01 A - I R M EP]; A47J-037/04 [2006-01 A - I R M EP]
ICCA - A23B-007/00 [2006 C - I R M EP]; A23L-001/01 [2006 C - I R M EP]; A47J-037/04 [2006 C - I R M EP]
EC - A23B-007/06
A23L-001/01D
A23L-001/01H
A47J-037/04G
DS - AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; ARIPO Patent (GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW); Eurasian Patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM); European Patent (AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE); OAPI Patent (BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG)
DT - Basic
UP - 2001-14

/// LEGALI - ©EPO

PN - WO200126483 A1 20010419 [WO200126483]
AP - WO/US0027852 20001006 [2000WO-US27852]
ACTE - 20010419 WO/AK [+]
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

20010419 WO/AL [+]
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT
GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU

TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF
BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

20010613 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS
DESIGNATED IN THIS APPLICATION

20010809 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO
EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

20020926 WO/REG; DE/8642 [-]

DE: IMPACT ABOLISHED FOR DE
<DE>

20040709 WO/NENP

NON-ENTRY INTO THE NATIONAL PHASE IN:
<JP>

UP - 2004-34

Search statement 3

6234066 OR 6,234,066

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6234066

May 22, 2001

Rotary blancher for processing food product

REISSUE: March 2, 2004 - Reissue Application filed Ex. Gp.: 1761; Re. S.N. 10/791,695 (O.G. July 27, 2004)

APPL-NO: 727122 (09)

FILED-DATE: November 30, 2000

GRANTED-DATE: May 22, 2001

CORE TERMS: food, blancher, orifice, drum, o'clock, discharged, heat, bank, food product, fluid ...

6234066 OR 6,234,066

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To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

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For further explanation, press the H key (for HELP) and then the ENTER key.